

12/15/98

PTO

U.S. S.

PTO

Please type a plus sign (+) inside this box → ☐

Approved for use through 09/30/00. OMB 0651-0032  
 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No.	3064-128	Total Pages	135
	First Named Inventor or Application Identifier			
	Zong Ping Zhao			
	Express Mail Label No.	EM200366112US		

<b>APPLICATION ELEMENTS</b> <small>See MPEP chapter 600 concerning utility patent application contents.</small>		<b>ADDRESS TO:</b> Assistant Commissioner for Patents Box Patent Application Washington, DC 20231	
1. <input checked="" type="checkbox"/> Fee Transmittal Form <small>(Submit an original, and a duplicate for fee processing)</small>	6. <input type="checkbox"/> Microfiche Computer Program (Appendix)		
2. <input checked="" type="checkbox"/> Specification <small>(Total Pages 92)</small> <small>(preferred arrangement set forth below)</small>	7. Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, all necessary)</small>		
- Descriptive title of the Invention	a. <input type="checkbox"/> Computer Readable Copy		
- Cross References to Related Applications	b. <input type="checkbox"/> Paper Copy (identical to computer copy)		
- Statement Regarding Fed sponsored R & D	c. <input type="checkbox"/> Statement verifying identity of above copies		
- Reference to Microfiche Appendix			
- Background of the Invention			
- Brief Summary of the Invention			
- Brief Description of the Drawings (if filed)			
- Detailed Description			
- Claim(s)			
- Abstract of the Disclosure			
3. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) <small>(Total Sheets 32)</small>	<b>ACCOMPANYING APPLICATION PARTS</b>		
4. Oath or Declaration <small>(Total Pages 3)</small>	8. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))		
a. <input checked="" type="checkbox"/> Newly executed (original or copy)	9. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney <small>(when there is an assignee)</small>		
b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <small>(for continuation/divisional with Box 17 completed) (Note Box 5 below)</small>	10. <input type="checkbox"/> English Translation Document (if applicable)		
i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	11. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations		
5. <input type="checkbox"/> Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.	12. <input type="checkbox"/> Preliminary Amendment		
	13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <small>(Should be specifically itemized)</small>		
	14. <input type="checkbox"/> Small Entity Statement filed in prior application. Statement(s) <input type="checkbox"/> Status still proper and desired		
	15. <input type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small>		
	16. <input type="checkbox"/> Other: _____		

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:  
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: \_\_\_\_\_

<b>18. CORRESPONDENCE ADDRESS</b>				
<input type="checkbox"/> Customer Number or Bar Code Label <input type="checkbox"/> Correspondence address below <small>(Insert Customer No. or Attach bar code label here)</small>				
NAME	Darrin Wesley Harris, Esq. Woodard, Emhardt, Naughton, Moriarty & McNett			
ADDRESS	111 Monument Circle, Suite 3700 Bank One Center/Tower			
CITY	Indianapolis	STATE	Indiana	ZIP CODE 46204-5137
COUNTRY	USA	TELEPHONE	(317) 634-3456	FAX (317) 637-7561

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

\*Express Mail\* label number Em200366112 US  
 Date of Deposit December 15, 1998  
 I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37CFR § 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

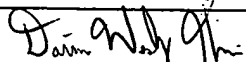
Kelly M. Porter  
 Signature of person mailing paper or fee

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Approved for use through 9/30/00. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
PTO/SB/17 (12-97)

FEE TRANSMITTAL		Complete if Known	
<i>Note: Effective October 1, 1997. Patent fees are subject to annual revision.</i>		Application Number	
		Filing Date	December 15, 1998
		First Named Inventor	Zong Ping Zhao
		Group Art Unit	
		Examiner Name	
TOTAL AMOUNT OF PAYMENT (\$)	1,304.00	Attorney Docket Number	35:3064-128

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																																		
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number: 23-3030</p> <p>Deposit Account Name: Woodard, Emhardt et al.</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed: <input checked="" type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>	<p>3. ADDITIONAL FEES</p> <table border="1"><thead><tr><th>Large Fee Code</th><th>Small Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr><tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr><tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr><tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr><tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr><tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr><tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr><tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td></td></tr><tr><td>117</td><td>950</td><td>217</td><td>475</td><td>Extension for reply within third month</td><td></td></tr><tr><td>118</td><td>1,510</td><td>218</td><td>755</td><td>Extension for reply within fourth month</td><td></td></tr><tr><td>128</td><td>2,060</td><td>228</td><td>1,030</td><td>Extension for reply within fifth month</td><td></td></tr><tr><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td><td></td></tr><tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td><td></td></tr><tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td><td></td></tr><tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr><tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr><tr><td>141</td><td>1,320</td><td>241</td><td>660</td><td>Petition to revive - unintentional</td><td></td></tr><tr><td>142</td><td>1,320</td><td>242</td><td>660</td><td>Utility issue fee (or reissue)</td><td></td></tr><tr><td>143</td><td>450</td><td>243</td><td>225</td><td>Design issue fee</td><td></td></tr><tr><td>144</td><td>670</td><td>244</td><td>335</td><td>Plant issue fee</td><td></td></tr><tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr><tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr><tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td></td></tr><tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>40</td></tr><tr><td>146</td><td>790</td><td>246</td><td>395</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr><tr><td>149</td><td>790</td><td>249</td><td>395</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr><tr><td colspan="5">Other fee (specify) _____</td><td></td></tr><tr><td colspan="5">Other fee (specify) _____</td><td></td></tr><tr><td colspan="5">Reduced by Basic Filing Fee Paid</td><td></td></tr></tbody></table>	Large Fee Code	Small Fee Code	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet.		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	400	216	200	Extension for reply within second month		117	950	217	475	Extension for reply within third month		118	1,510	218	755	Extension for reply within fourth month		128	2,060	228	1,030	Extension for reply within fifth month		119	310	219	155	Notice of Appeal		120	310	220	155	Filing a brief in support of an appeal		121	270	221	135	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1,320	241	660	Petition to revive - unintentional		142	1,320	242	660	Utility issue fee (or reissue)		143	450	243	225	Design issue fee		144	670	244	335	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment per property (times number of properties)	40	146	790	246	395	Filing a submission after final rejection (37 CFR 1.129(a))		149	790	249	395	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____						Other fee (specify) _____						Reduced by Basic Filing Fee Paid					
Large Fee Code	Small Fee Code	Fee Description	Fee Paid																																																																																																																																																																																
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																															
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.																																																																																																																																																																															
139	130	139	130	Non-English specification																																																																																																																																																																															
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																															
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																															
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																															
115	110	215	55	Extension for reply within first month																																																																																																																																																																															
116	400	216	200	Extension for reply within second month																																																																																																																																																																															
117	950	217	475	Extension for reply within third month																																																																																																																																																																															
118	1,510	218	755	Extension for reply within fourth month																																																																																																																																																																															
128	2,060	228	1,030	Extension for reply within fifth month																																																																																																																																																																															
119	310	219	155	Notice of Appeal																																																																																																																																																																															
120	310	220	155	Filing a brief in support of an appeal																																																																																																																																																																															
121	270	221	135	Request for oral hearing																																																																																																																																																																															
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																															
140	110	240	55	Petition to revive - unavoidable																																																																																																																																																																															
141	1,320	241	660	Petition to revive - unintentional																																																																																																																																																																															
142	1,320	242	660	Utility issue fee (or reissue)																																																																																																																																																																															
143	450	243	225	Design issue fee																																																																																																																																																																															
144	670	244	335	Plant issue fee																																																																																																																																																																															
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																															
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																															
126	240	126	240	Submission of Information Disclosure Stmt																																																																																																																																																																															
581	40	581	40	Recording each patent assignment per property (times number of properties)	40																																																																																																																																																																														
146	790	246	395	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																															
149	790	249	395	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																															
Other fee (specify) _____																																																																																																																																																																																			
Other fee (specify) _____																																																																																																																																																																																			
Reduced by Basic Filing Fee Paid																																																																																																																																																																																			
<p>1. FILING FEE</p> <table border="1"><thead><tr><th>Large Fee Code</th><th>Small Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>101</td><td>790</td><td>201</td><td>395</td><td>Utility filing fee</td><td>760</td></tr><tr><td>106</td><td>330</td><td>206</td><td>165</td><td>Design filing fee</td><td></td></tr><tr><td>107</td><td>540</td><td>207</td><td>270</td><td>Plant filing fee</td><td></td></tr><tr><td>108</td><td>790</td><td>208</td><td>395</td><td>Reissue filing fee</td><td></td></tr><tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="4">SUBTOTAL (1)</td><td>(\$)</td><td>760</td></tr></tbody></table> <p>2. CLAIMS</p> <table border="1"><thead><tr><th>Total Claims</th><th>Extra</th><th>Fee from below</th><th>Fee Paid</th></tr></thead><tbody><tr><td>35</td><td>-20 =</td><td>15</td><td>X 18 = 270</td></tr><tr><td>6</td><td>-3 =</td><td>3</td><td>X 78 = 234</td></tr><tr><td colspan="4">Multiple Dependent Claims</td><td></td></tr></tbody></table> <p>Large Entity Small Entity</p> <table border="1"><thead><tr><th>Fee Code</th><th>Fee Code</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>103</td><td>22</td><td>203</td><td>11</td><td>Claims in excess of 20</td><td></td></tr><tr><td>102</td><td>82</td><td>202</td><td>41</td><td>Independent claims in excess of 3</td><td></td></tr><tr><td>104</td><td>270</td><td>204</td><td>135</td><td>Multiple dependent claim</td><td></td></tr><tr><td>109</td><td>82</td><td>209</td><td>41</td><td>Reissue independent claims over original patent</td><td></td></tr><tr><td>110</td><td>22</td><td>210</td><td>11</td><td>Reissue claims in excess of 20 and over original patent</td><td></td></tr><tr><td colspan="4">SUBTOTAL (2)</td><td>(\$)</td><td>504</td></tr></tbody></table>	Large Fee Code	Small Fee Code	Fee Description	Fee Paid	101	790	201	395	Utility filing fee	760	106	330	206	165	Design filing fee		107	540	207	270	Plant filing fee		108	790	208	395	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1)				(\$)	760	Total Claims	Extra	Fee from below	Fee Paid	35	-20 =	15	X 18 = 270	6	-3 =	3	X 78 = 234	Multiple Dependent Claims					Fee Code	Fee Code	Fee Description	Fee Paid	103	22	203	11	Claims in excess of 20		102	82	202	41	Independent claims in excess of 3		104	270	204	135	Multiple dependent claim		109	82	209	41	Reissue independent claims over original patent		110	22	210	11	Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)				(\$)	504																																																																																		
Large Fee Code	Small Fee Code	Fee Description	Fee Paid																																																																																																																																																																																
101	790	201	395	Utility filing fee	760																																																																																																																																																																														
106	330	206	165	Design filing fee																																																																																																																																																																															
107	540	207	270	Plant filing fee																																																																																																																																																																															
108	790	208	395	Reissue filing fee																																																																																																																																																																															
114	150	214	75	Provisional filing fee																																																																																																																																																																															
SUBTOTAL (1)				(\$)	760																																																																																																																																																																														
Total Claims	Extra	Fee from below	Fee Paid																																																																																																																																																																																
35	-20 =	15	X 18 = 270																																																																																																																																																																																
6	-3 =	3	X 78 = 234																																																																																																																																																																																
Multiple Dependent Claims																																																																																																																																																																																			
Fee Code	Fee Code	Fee Description	Fee Paid																																																																																																																																																																																
103	22	203	11	Claims in excess of 20																																																																																																																																																																															
102	82	202	41	Independent claims in excess of 3																																																																																																																																																																															
104	270	204	135	Multiple dependent claim																																																																																																																																																																															
109	82	209	41	Reissue independent claims over original patent																																																																																																																																																																															
110	22	210	11	Reissue claims in excess of 20 and over original patent																																																																																																																																																																															
SUBTOTAL (2)				(\$)	504																																																																																																																																																																														
SUBTOTAL (3) (\$)					40																																																																																																																																																																														

SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	Darrin Wesley Harris, Esq.	Reg. Number	40,636
Signature		Date	12/15/98
		Deposit Account User ID	23-3030

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT OFFICE

In re patent application of:	)	
	)	Before the Examiner
Zong Ping Zhao	)	
	)	
Serial No. New Application	)	
	)	Group Art Unit
Filed	)	
	)	
MAGNETIC ROTATIONAL	)	
POSITION SENSOR	)	December 15, 1998

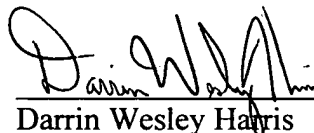
DEPOSIT ACCOUNT INFORMATION

Hon. Assistant Secretary and  
Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

The Commissioner is authorized to charge any deficiencies or credit any  
overpayments to Deposit Account No. 23-3030, but not to include payment of issue fees.

Respectfully submitted,



Darrin Wesley Harris  
Reg. No. 40,636  
Woodard, Emhardt, Naughton,  
Moriarty & McNett  
Bank One Center Tower  
111 Monument Circle, Suite 3700  
Indianapolis, Indiana 46204-5137  
(317) 634-3456